

ERROR DETECTEDSUGGESTED CORRECTION

SERIAL NUMBER:

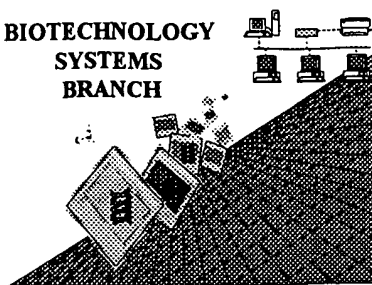
10/002,631

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) ...  
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>      Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

## **RAW SEQUENCE LISTING** **ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



0400

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/002,631

Source: OIPK

Date Processed by STIC: 12/11/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

OIPE

## RAW SEQUENCE LISTING

DATE: 12/11/2001

PATENT APPLICATION: US/10/002,631

TIME: 12:13:46

Input Set : A:\772USAPP.txt

Output Set: N:\CRF3\12112001\I002631.raw

*pg 1-5*

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: GRAFF, JONATHAN M.  
4 MUENSTER, MATTHEW  
5 ALLAN, DEBORAH  
7 <120> TITLE OF INVENTION: METHODS TO IDENTIFY SIGNAL SEQUENCES  
9 <130> FILE REFERENCE: UTSD:772US  
*OK* 11 <140> CURRENT APPLICATION NUMBER: US/10/002,631  
12 <141> CURRENT FILING DATE: 2001-10-31  
14 <150> PRIOR APPLICATION NUMBER: 60/300,309  
15 <151> PRIOR FILING DATE: 2001-06-21  
19 <160> NUMBER OF SEQ ID NOS: 324  
21 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

528 <210> SEQ ID NO: 15  
529 <211> LENGTH: 613  
530 <212> TYPE: DNA  
531 <213> ORGANISM: Homo sapiens  
533 <400> SEQUENCE: 15  
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536 gttcctgctc agttttgggtc ttttttgggt cattgggtctc ctacatttca ctctctgaga 180  
537 tctcctcact ccgaccctgc ttgttgacct ttgggggtgga ggcttcctct actcgggcct 240  
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539 caggggaggc ccggccctc gatctcagtt cttcccgagg ccagggggc tctttcttcc 360  
540 gtccactcct cattgacatc gagtctttat tctgtcgtgt cttcattctt caggctgtgg 420  
541 agaccccatc ctctctgcc tgggcagctg aatacagaaa cttctctgct ccaccccaag 480  
542 ttccccacag ctgtggtctg ggaagcagga tctccaagtt tccagtgtgg gcacctggaa 540  
E--> 543 ctgctggtag ctcgggacgg ctggctggct ncgaaccggg attccgggct tccgggcct 600  
544 tctggggggg cgg 613  
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822 <212> TYPE: DNA  
823 <213> ORGANISM: Homo sapiens  
825 <400> SEQUENCE: 25  
826 ggatcctgca cttatccagg ttaagatcta aataggctgt aagtttcttg ttaaagtcac 60  
827 gaacaatgtt ggcaggatca ctatctgcaa actctgggac aggcacactg ataaattcaa 120  
828 cttctctctc ttcaaagatt ttaatatctt cttcaattgt ctggtagaga gcagctgggg 180  
829 catctgcaga gggctcattt aagatgacat catctttgat gtactttatt ccacagtagt 240  
830 acacgtcatc tgggtgaagt gcaaaatatt tgtacaagta tgctcctcct agaataacac 300  
831 ctgcaagcat aaatgctagt ccaaagcaca tgcaaccaaca ccaggctctt ctttgcccaa 360  
832 ctggtaccac atcatctggg tcttgagct ccaccgcgac ggcgtcgggg gggatgatga 420  
833 gcgcctctc gccgctcttg ggcgtgctct tcttgccctc cttctggggc agagcggagt 480  
834 tgaacgtcac cttcaccatg gcgcggcctg gggcgccctc gaagggcgcc ggcggctcgg 540  
E--> 835 ggcgcggtcg cggtctcccg ctgcgattgc agcctctacg gncgggctcc gggagccggc 600  
E--> 836 tcggggcgcc tgaagaaggt cgggaagctt cgcggcgcca gaagcgcta ctgcgggtcg 660

*> see  
item 9  
on Error  
summary  
sheet*

*> see  
item 9  
on Error  
summary  
sheet 12/11/01*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001

TIME: 12:13:46

Input Set : A:\772USAPP.txt

Output Set: N:\CRF3\12112001\I002631.raw

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1499 <211> LENGTH: 607
1500 <212> TYPE: DNA
1501 <213> ORGANISM: Homo sapiens
1503 <400> SEQUENCE: 41
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1505 ccatggaaga gccacatga atccaggtct actttccttt acaggtagat tccagaacaa 120
1506 caacaaaaaa tgtaagacta caagaaatga tttaatatga taaaactccc atttcaaaac 180
E--> 1507 ccagttctaa aggatttadn tgactaatgc ntgattatnt agtcatggaa aatgtctctc 240
1508 ataaaagtgc tcctaacaaa acatgatcta caataattta taaaatgtga agggttggga 300
1509 tgtgcagact gattggtgca cgtcaggttg tttctcttaa ataaggata aaaaactatg 360
1510 atatcatagt ctttcgactt tattttctga gataaaaaag tataggcata ggtgttttta 420
1511 atagtcttct tgatgatatc ctttagaata atctatcaaa tggcttcttt catgtttcct 480
1512 gattatcagc attcatcagt gttactgtca gccttgatta agtggttgaa aatttcagag 540
1513 aagaataagc aacttctgtg aacctttccc caatccctga gaatcatgtc gacgcggccg 600
1514 cgaattc
1761 <210> SEQ ID NO: 50
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1763 <212> TYPE: PRT
1764 <213> ORGANISM: Homo sapiens
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1768 1 5 10 15
1770 Gln Val Tyr Ser Arg Arg Lys Ser Phe Leu Thr Lys Lys Leu Glu Leu
1771 20 25 30
1773 Gln Met Arg Trp Ser Leu Leu Asp Gln Ile Leu His Ile Asp Phe Ser
1774 35 40 45
1776 Thr Cys Pro Ser Ser Val Gln Gly Trp Leu Ala Ala Gln His Thr Pro
1777 50 55 60
1779 Pro Pro Leu Phe Ser Phe Leu Ala Val Tyr Ser Glu Asn Cys Leu Tyr
1780 65 70 75 80
1782 Cys Ile Phe Val Leu Trp Cys Asn Lys His Asp Gly Ala Phe Tyr Tyr
1783 85 90 95
E--> 1785 Ile Ile Pro Val Leu Leu Val Ile Leu Tyr Xaa Tyr Ser Val Ile Ala
1786 100 105 110
1788 Val Leu Gln Ser Gln Thr Ala Ala Lys Cys Lys Ile Ile Glu Met Tyr
1789 115 120 125
1791 Lys Asn Cys Ser Ile Phe Lys Ile Ser Lys Met Asp His Ile Ile Tyr
1792 130 135 140
1794 Leu Val Leu Gln Leu Thr Thr Leu Cys Ser Leu Trp Glu Gly Gly Ser
1795 145 150 155 160
1797 Pro Val Cys Leu Trp Gly Ser
1798 165
2174 <210> SEQ ID NO: 63
2175 <211> LENGTH: 392
2176 <212> TYPE: DNA
2177 <213> ORGANISM: Homo sapiens
2179 <400> SEQUENCE: 63

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678

see  
item 9  
on Enn  
Summary  
Sheet

item 9

P.3

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001

TIME: 12:13:46

Input Set : A:\772USAPP.txt

Output Set: N:\CRF3\12112001\I002631.raw

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2180 ggatccgagt gctgatttgt acattgattc aggggagtaa ttggggagaa ggaaaaaggt 60
2181 ggggtggaat gctggctcgg ccctgccagt cacatgggtg gcagcagggc agctcagagg 120
2182 ttgcctgaag agttcgtttt tcttgctcca gtccatctgc aggggcccggt ttgctgctgc 180
2183 gtttctggtg ggccctctct ttggccatgg ccaggagat gttgaagtct aggatggggt 240
E--> 2184 cggaggagga ggtagacgag ggcgctgtgg agtcctgttt tgggggctg tcttggaaat 300
2185 tcagctctct gctggtgtca ctggaggcgg atctcaccag ggctggcctg gggctctcca 360
2186 aggtgcctc tggtcgacgc ggccgcgaat tc 392
2189 <210> SEQ ID NO: 64
2190 <211> LENGTH: 127
2191 <212> TYPE: PRT
2192 <213> ORGANISM: Homo sapiens
2194 <400> SEQUENCE: 64
2195 Ile Arg Gly Arg Val Asp Gln Arg Gln Pro Trp Arg Ala Pro Gly Gln
2196 1 5 10 15
E--> 2198 Pro Trp Asp Pro Pro Val Thr Pro Ala Arg Ser Ile Xaa Lys Thr
2199 20 25 30
2201 Ala Pro Gln Asn Arg Thr Pro Gln Arg Pro Arg Leu Pro Pro Pro Pro
2202 35 40 45
2204 Thr Pro Ser Thr Ser Thr Ser Pro Trp Pro Trp Pro Lys Arg Gly Pro
2205 50 55 60
2207 Thr Arg Asn Ala Ala Ala Asn Gly Pro Leu Gln Met Asp Trp Ser Lys
2208 65 70 75 80
2210 Lys Asn Glu Leu Phe Arg Gln Pro Leu Ser Cys Pro Ala Ala Thr His
2211 85 90 95
2213 Val Thr Gly Arg Ala Glu Pro Ala Phe His Pro Thr Phe Phe Leu Leu
2214 100 105 110
2216 Pro Asn Tyr Ser Pro Glu Ser Met Tyr Lys Ser Ala Leu Gly Ser
2217 115 120 125
2475 <210> SEQ ID NO: 73
2476 <211> LENGTH: 747
2477 <212> TYPE: DNA
2478 <213> ORGANISM: Homo sapiens
2480 <400> SEQUENCE: 73
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2482 gagtcggaat tgaggaggat ttcttggaga aacttctggg gcaggaagat accagttttt 120
E--> 2483 cctgatcaga aagtgcacg ggaagatacc aaggaaaacc acaaagaggt gcattctcct 180
2484 cacagtgagc tcggatacta tcattgatct caggaatgtg aggggttatg tgagaaattc 240
2485 cagtataatc aaacccattg atccatattc cagagtcccg tttaactgca ttctcttcca 300
2486 agtcattgaa tgttctagtc atatgctgaa gaaacactct ctttggcttc ggattagcag 360
2487 gattggagct atatggaaaa aatgttccac tgcaacaag gaggaatgta attgcacata 420
2488 ccaaagttaa agttagcatg gttttttttg tgctcttggc aaggtagatg aagttaatca 480
2489 tgtaataaaa tcttttcgca agagtatgta taagtattat tttggctaca gttgcagttc 540
2490 catacagaca aacggagacc atagaagtgg ttataccatg agagagactg tccaataaga 600
2491 gagatgaaca ctgctataat gagaacggta acaaggctag tgaaccagct gatcaaaagt 660
2492 atgccaaagtc cacacaagaa gtccttcttg tagttaccag tcttatgttt gggctgcaaa 720
2493 aattttttgc ccaggtacaa aacaaca 747
2496 <210> SEQ ID NO: 74
2497 <211> LENGTH: 238
2498 <212> TYPE: PRT

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001

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Input Set : A:\772USAPP.txt

Output Set: N:\CRF3\12112001\I002631.raw

2499 &lt;213&gt; ORGANISM: Homo sapiens

2501 &lt;400&gt; SEQUENCE: 74

2502 Cys Cys Phe Val Pro Gly Gln Lys Ile Phe Ala Ala Gln Thr Asp Trp

2503 1 5 10 15

2505 Leu Gln Glu Gly Leu Leu Val Trp Thr Trp His His Phe Asp Gln Leu

2506 20 25 30

2508 Val His Pro Cys Tyr Arg Ser His Tyr Ser Ser Val His Leu Ser Tyr

2509 35 40 45

2511 Trp Thr Val Ser Leu Met Val Pro Leu Leu Trp Ser Pro Phe Val Cys

2512 50 55 60

2514 Met Glu Leu Gln Leu Pro Lys Tyr Leu Tyr Ile Leu Leu Arg Lys Asp

2515 65 70 75 80

2517 Phe Ile Thr Leu Thr Ser Ser Thr Leu Pro Arg Ala Gln Lys Lys Pro

2518 85 90 95

2520 Cys Leu Leu Trp Tyr Val Gln Leu His Ser Ser Leu Phe Ala Val Glu

2521 100 105 110

2523 His Phe Phe His Ile Ala Pro Ile Leu Leu Ile Arg Ser Gln Arg Glu

2524 115 120 125

2526 Cys Phe Phe Ser Ile Leu Glu His Ser Met Thr Trp Lys Glu Met Gln

2527 130 135 140

2529 Leu Asn Gly Thr Leu Glu Tyr Gly Ser Met Gly Leu Ile Ile Leu Glu

2530 145 150 155 160

2532 Phe Leu Thr Pro Leu Thr Phe Leu Arg Ser Met Ile Val Ser Glu Leu

2533 165 170 175

E--&gt; 2535 Thr Val Arg Arg Met His Leu Phe Val Val Phe Leu Gly Ile Phe Xaa

2536 180 185 190

2538 Val His Phe Leu Ile Arg Lys Asn Trp Tyr Leu Pro Ala Pro Glu Val

2539 195 200 205

2541 Ser Pro Arg Asn Pro Pro His Phe Arg Leu Ile Ser Lys Glu Gln Thr

2542 210 215 220

2544 Pro Trp Asp Ser Ile Lys Leu Thr Phe Glu Ala Thr Gly Ser

2545 225 230 235

3047 &lt;210&gt; SEQ ID NO: 89

3048 &lt;211&gt; LENGTH: 558

3049 &lt;212&gt; TYPE: DNA

3050 &lt;213&gt; ORGANISM: Homo sapiens

3052 &lt;400&gt; SEQUENCE: 89

3053 ggatccagac ccacgagggga catatgaatt ttcattcagc agcttgatgg tgctggtgaa 60

3054 gtctgtgctg tccagtttct cgcacaactt tctcttcagg tcatcccaat ataagcgacg 120

3055 tgctgcaggg aagtcctctc ctggctcctc cctcactgga gactcgggtc ctgccagtct 180

3056 ctacactca gtttttggtt ctaccccttt acaatagccc aagtagccaa tcataaatcc 240

3057 aatcaagaaa aagacgatca cagcaatagt cccatagcag atacttccac tacacctttt 300

E--&gt; 3058 tggntttgtg acattggcct ttgtgttatt gtcagcattt tcttcttcat ctacagcaag 360

E--&gt; 3059 tttcatcttc acatgactgt tatcgccatc tacttgccga gccaggctga accgggtata 420

3060 tgacaatggt tctccaccaa acaagttaga gaatgctgat ctagcttgat ccatcattct 480

E--&gt; 3061 gaactgccac acagaagaca ctagcgcgtc ctacgtcccg agccgcaccc gatatcccg 540

3062 cgacgcggcc gccaattc 558

4718 &lt;210&gt; SEQ ID NO: 138

4719 &lt;211&gt; LENGTH: 358

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001

TIME: 12:13:47

Input Set : A:\772USAPP.txt

Output Set: N:\CRF3\12112001\I002631.raw

4720 <212> TYPE: DNA  
 4721 <213> ORGANISM: Mus musculus  
 4723 <400> SEQUENCE: 138

E--> 4724 gaattcgcgg ccgcttttga cgcggcgggc ggcggcgcgc tggatgatcg ctggatgatc 60  
 4725 ttcggcctct tgcctctggc tattttggcc ttttgcctgg tctacgttcg gaagtaccag 120  
 4726 agtcagcggg aaagtggagt cgtctccact gtgacagcca ttttttccact ggctgttgct 180  
 4727 ctgatcacat cagcactgct gccggtggat atatttttgg tttcttacat gaaaaatcaa 240  
 4728 aatggcacat tcaaggactg ggctgacgcc aatgtcaccg tacagattga gaataccggt 300  
 4729 ctgtatggct actatactct gtattctgtc attctcttct gtgtgttctt ctggatcc 358

8037 <210> SEQ ID NO: 254  
 8038 <211> LENGTH: 209  
 8039 <212> TYPE: PRT  
 8040 <213> ORGANISM: Mus musculus  
 8042 <400> SEQUENCE: 254

8043 Val Ser Ser Val Asp Leu His Ala Pro Thr Ser Ile Ser Phe Ile Glu  
 8044 1 5 10 15  
 E--> 8046 Glu Tyr Thr Ser Ser Asp Phe Tyr Leu Gly Xaa Phe Leu Arg Val Arg  
 8047 20 25 30  
 8049 Val Val Thr Gly Arg Arg Ser Gly Cys Asp Lys Gly Asp Cys Trp Ser  
 8050 35 40 45  
 8052 Ser Ser Tyr Ser Cys Pro Lys Lys Leu Met Thr Thr Met Cys His Ile  
 8053 50 55 60  
 8055 Thr Leu Gly Phe Ser Glu Thr Phe Glu Val Asn Ser Asn Leu Pro Asn  
 8056 65 70 75 80  
 8058 Arg Leu Trp Ile Arg Asp Phe Lys Ser Val Ser Tyr Tyr Phe Cys Val  
 8059 85 90 95  
 8061 Leu Met Ser Phe Gln Cys Ile Phe Cys Glu Leu Pro Leu Gln Ser Thr  
 8062 100 105 110  
 8064 Val Thr Glu Tyr Leu Arg Asp Arg Val Pro Gln Ser Thr Leu Val Thr  
 8065 115 120 125  
 8067 Glu Tyr Pro Arg Asp Ser Thr Ser Val Thr Glu Tyr Pro Ser Asp Arg  
 8068 130 135 140  
 8070 Pro Gln Val Thr Leu Gln Val Thr Leu Val Thr Leu Leu Cys Tyr Leu  
 8071 145 150 155 160  
 8073 Arg Asn Ser Ser Val Leu His Val Phe Lys Val Lys Asn Cys Ser Arg  
 8074 165 170 175  
 8076 Asn Leu His Asn Asp Leu His Arg Leu Ala Pro Ile Phe Val Leu Phe  
 8077 180 185 190  
 8079 Leu Cys Cys Leu Phe Glu Arg Ser Phe Leu Leu His Arg Gln Ser Gly  
 8080 195 200 205  
 8082 Ser

Item 9

Item 9

FMT

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001

TIME: 12:13:49

Input Set : A:\772USAPP.txt

Output Set: N:\CRF3\12112001\I002631.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:543 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15  
L:652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001

TIME: 12:13:49

Input Set : A:\772USAPP.txt

Output Set: N:\CRF3\12112001\I002631.raw

L:835 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:25  
M:340 Repeated in SeqNo=25  
L:854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:1507 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:41 ✓  
L:1785 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:50 -  
L:2184 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:63 .  
L:2198 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64 -  
L:2483 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:73 -  
L:2535 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74 -  
L:3058 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:89 -  
M:340 Repeated in SeqNo=89  
L:4724 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:138 ✓  
L:8046 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:254